

## СПИСЪК НА ПУБЛИКАЦИИТЕ

на гл. ас. д-р Валентин Атанасов Атанасов

представени за участие в конкурс за заемане на академичната длъжност „доцент“ към катедра „Дървообработващи машини, област на висше образование 6. Аграрни науки и ветеринарна медицина, професионално направление 6.5. Горско стопанство, научна специалност „Машини и съоръжения за горското стопанство, дърводобива, дървообработващата и мебелната промишленост“, по дисциплината „Дървообработващи машини“, обявен в Държавен вестник, бр. 102/08.12.2023 г. и на интернет страницата на Лесотехническият университет на 30.11.2023 г.  
Код на процедурата: WWI-AsP-1123-116

### **А.1. Дисертационен труд за присъждане на образователна и научна степен „доктор“**

**A1.1.** Тема на дисертационния труд – Атанасов, В. 2014. Изследване експлоатационните показатели на мобилни хоризонтални банцизи, Научен ръководител: доц. д-р Живко Бонев Гочев, Рецензенти: проф. д-н Христо Константинов Шехтов и проф. д-р Божидар Георгиев Динков

### **В.3. Хабилизационен труд – монография**

**В3.1.** Атанасов, В. 2023. Сигово-кинематични параметри при фрезозане на дървесина и влиянието им при проектиране на работни органи на машините, Издателство „Авангард Прима“, София, ISBN 978-619-239-901-6, с. 160. Рецензенти: проф. д-р Живко Бонев Гочев и проф. д-р Георги Йорданов Вуков

### **Г.7. Статии и доклади, публикувани в научни издания, реферирани и индексирани в световноизвестни бази данни с научна информация – 15 бр. в т.ч.**

**Г7.1. Atanasov, V., Kovatchev, G., Todorov, T.** 2023. Study of the influence of basic process parameters on the roughness of surfaces during milling of Scots pine wood. Acta Facultatis Xylogologiae Zvolen. 65(2). ISSN 1336-3824. pp 89-98. DOI: 10.17423/afx.2023.65.2.08. ISSN 1336-3824. (Web of Science; SCOPUS, RG Journal Impact: 0.336, Q2) (<https://df.tuzvo.sk/sites/default/files/08-02-23.pdf>)

**Г7.2. Atanasov, V., Kovatchev, G., Todorov, T.** 2022. Study of the influence of basic process parameters on the roughness of surfaces during wood milling. 10<sup>th</sup> Hardwood Conference Proceeding. ISBN 978-963-334-446-0. pp 242-250. <https://doi.org/10.35511/978-963-334-446-0>. (Web of Science)

**Г7.3. Atanasov, V.** 2021. Experimental study in primary wood cutting with circular saw and band saw machine. Scientific journal Innovations in Woodworking Industry and Engineering Design. ISSN 1314-6149. 2021 (20): 73–81 (Web of Science)

**Г7.4. Atanasov, V., Nikolov, P.** 2021. A study on the effect of the bearing clearance of the wheels on the movement of the band saw blade. Scientific journal Innovations in Woodworking Industry and Engineering Design. ISSN 1314-6149. 2021 (20): 44–50 (Web of Science)

**Г7.5. Atanasov, V.** 2021. Experimental research of the cutting force during longitudinal milling of solid wood and wood-based composites. Acta Facultatis Xylogologiae Zvolen. 63(2). ISSN 1336-3824. pp 73-84. DOI: 10.17423/afx.2021.63.2.06 ISSN 1336-3824. (Web of Science; SCOPUS) (<https://df.tuzvo.sk/sites/default/files/06-02-21.pdf>)

**Г7.6. Kovatchev, G., Atanasov, V.** 2021. Determination of vibration during longitudinal milling of wood-based materials. Acta Facultatis Xylogologiae Zvolen. 63(1). ISSN 1336-3824. pp. 85-92. DOI: 10.17423/afx.2021.63.1.08 ISSN 1336-3824. (Web of Science; SCOPUS) (<https://df.tuzvo.sk/sites/default/files/08-01-21.pdf>)

**Г7.7.** Vlasev, V., **Atanasov, V.**, Kovatchev, G. 2019. Determination of the Values of the Cutting Forces on a Wood Shaper with Lower Spindle Position. 30<sup>th</sup> International Conference on Wood Science and Technology - ICWST 2019. pp 215-220. ISBN: 978-953-292-059-8. (SCOPUS)

**Г7.8.** Vlasev, V.; Kovatchev, G.; **Atanasov, V.**, 2019: Mechanism for Belt Sanding Machines with a Fixed Bearing of the Sanding Belt and Eccentric Tension. 30<sup>th</sup> International Conference on Wood Science and Technology - ICWST 2019. pp 221-224. ISBN: 978-953-292-059-8. (SCOPUS)

**Г7.9.** **Atanasov, V.**, Kovatchev, G. 2019. Determination of the Cutting Power during Milling of Wood-Based Materials, Acta Facultatis Xylogiae Zvolen. 61 (1) pp 93-101 DOI: 10.17423/afx.2019.61.1.09 ISSN 1336-3824. (Web of Science; SCOPUS) (<https://df.tuzvo.sk/sites/default/files/09-01-19.pdf>)

**Г7.10.** **Atanasov, V.**, Kovatchev, G. 2018. Study of the Cutting Power in Longitudinal Milling of Oak Wood. 29<sup>th</sup> International Conference on Wood Science and Technology - ICWST 2018. pp 27-33. ISBN: 978-953-292-059-8. (SCOPUS)

**Г7.11.** Kovatchev, G., **Atanasov, V.** 2018. Determination of Vibration during Longitudinal Milling of Meranti and Oak Wood. 29<sup>th</sup> International Conference on Wood Science and Technology - ICWST 2018. pp 109-115. ISBN: 978-953-292-059-8 (SCOPUS)

**Г7.12.** **Atanasov V.**, Kovatchev, G. 2018. Determination of the cutting power in processing some deciduous wood species. Hardwood Conference - Volume 8. ISBN 978-963-359-096-6. ISSN 2631-004X. pp 53-54 (Web of Science)

**Г7.13.** Kovatchev, G., **Atanasov, V.** 2018. Determination of vibration during milling process of some deciduous wood species. Hardwood Conference - Volume 8. ISBN 978-963-359-096-6. ISSN 2631-004X. pp 112-113 (Web of Science)

**Г7.14** Gochev, Zh., Vukov, G., **Atanasov, V.**, Vitchev, P. 2018. Study on the Power – Energetic Indicators of a Universal Milling Machine. Scientific journal Innovations in Woodworking Industry and Engineering Design. ISSN 1314-6149. e-ISSN 2367-6663. 1/2018. pp 18-24 (Web of Science)

**Г7.15.** **Atanasov, V.**, Todorov, M., Spasov, V. 2018. Research on the Quality of Processing with a Horizontal Bansaw, Scientific journal Innovations in Woodworking Industry and Engineering Design. ISSN 1314-6149. e-ISSN 2367-6663. 1/2018. pp 5-11 (Web of Science)

## **Г8. Статии и доклади, публикувани в нереферирани списания с научно рецензиране или публикувани в редактирани колективни томове – 18 бр. в т.ч.**

**Г8.1.** Kovatchev, G., **Atanasov, V.**, Radkova, I. 2023. Influence of mechanical oscillations on the accuracy of making grooves in wood-based materials. PRO LIGNO Online version ISSN 2069-7430. Vol. 19. N° 3. pp 3-9 ([https://www.proligno.ro/en/articles/2023/3/KOVATCHEV\\_Final.pdf](https://www.proligno.ro/en/articles/2023/3/KOVATCHEV_Final.pdf))

**Г8.2.** **Atanasov, V.**, Kovatchev, G., Todorov, T. 2023. Influence of main parameters of the milling process on the roughness when processing solid wood of meranti. PRO LIGNO Online version ISSN 2069-7430. Vol. 19 N° 2. pp 3-10 ([https://www.proligno.ro/en/articles/2023/2/ATANASOV\\_Final.pdf](https://www.proligno.ro/en/articles/2023/2/ATANASOV_Final.pdf))

**Г8.3.** Kovatchev, G., **Atanasov, V.**, Radkova, Iz. 2022. Influence of mechanical oscillations on the accuracy of making grooves in solid wood. Chip and Chipless Woodworking Processes 2022. ISSN 1339-8350 (online). ISSN 2453-904X (print). 13(1): 65–70

**Г8.4.** Vukov, G., **Atanasov, V.**, Slavov, V., Gochev, Zh. 2018. Investigation of spatial vibrations of a wood milling shaper and its spindle, caused by cutting force. Proceeding of 5<sup>th</sup> PTF BPI 2018 at the TUM School of Life Sciences Weihenstephan. Freising/Munich. pp 144-152

- Г8.5.** Vitchev, P., Angelski, D., **Atanasov, V.**, Michailov, Vl. 2018. Study on the influence of certain factors on the sound pressure level generated during cutting with the circular saw. Proceeding of 5<sup>th</sup> PTF BPI 2018 at the TUM School of Life Sciences Weihenstephan. Freising/Munich. pp 153 – 160.
- Г8.6.** **Atanasov, V.**, Gochev, Zh., Vukov, G., Vitchev, P., Kovatchev, G. 2018. Influence of some factors on the cutting force in milling of solid wood. Chip and Chipless Woodworking Processes 2018. ISSN 1339-8350 (online). ISSN 2453-904X (print). pp 9-15.
- Г8.7.** Vitchev, P., Gochev, Zh., **Atanasov, V.** 2018. Influence of the cutting mode on the surface quality during milling of articles from beech wood. Chip and Chipless Woodworking Processes 2018. ISSN 1339-8350 (online). ISSN 2453-904X (print). pp 183-190.
- Г8.8.** Gochev, Zh., Vukov, G., **Atanasov, V.**, Vitchev, P., Kovatchev, K. 2018. Factors influencing the cutting power in longitudinal milling of solid wood. Annals Warsaw University of Life Sciences. Forestry and Wood Technology No 102. ISSN 1898-5912. pp 103-111.
- Г8.9.** Vukov, G., Gochev, Sh., Slavov, V., Vitchev, P., **Atanasov, V.** 2017. Mechanic-mathematical model for investigations of the forced spatial vibrations of wood shaper and its spindle, caused by unbalance of the cutting tool. The 11<sup>th</sup> edition of the International Conference “Wood Science and Engineering in the Third Millennium” – ICWSE 2017. 02 – 04 November 2017. Brasov, Romania. Pro Ligno. Vol. 13 Issue 4. ISSN 2069-7430. pp 148-153.
- Г8.10.** Vukov, G., Gochev, Zh., Slavov, V., Vitchev, P., **Atanasov, V.** 2017. Numerical investigations of the forced spatial vibrations of a wood shaper and its spindle caused by unbalance of the cutting tool, The 11<sup>th</sup> edition of the International Conference “Wood Science and Engineering in the Third Millennium” – ICWSE 2017. 02 – 04 November 2017. Brasov, Romania. Pro Ligno. Vol. 13 Issue 4. ISSN 2069-7430. pp 154-161.
- Г8.11.** Gochev, Zh., Vukov, G., Vitchev, P., **Atanasov, V.**, Kovachev, G. 2017. Influence of the cutting mode on the overall vibrations generated by the woodworking milling machine. Annals Warsaw University of Life Sciences. Forestry and Wood Technology No 98. ISSN 1898-5912. pp. 33-42.
- Г8.12.** Gochev, Zh., Vukov, G., Vitchev, P., **Atanasov, V.**, Kovachev, G. 2017. Study on the vibration severity generated by woodworking spindle moulder machine. International Scientific Conference "Wood Technology & Product Design". Ss. Cyril and Methodius University of Skopje. Vol. III. ISBN 978-608-4723-02-8. pp 55-60.
- Г8.13.** Gochev, Zh., Vukov, G., Kovachev, G., Vitchev, P., **Atanasov, V.** 2017. Influence of the number of belts over the performance of the cutting mechanism in a woodworking shaper. International Scientific Conference "Wood Technology & Product Design". Ss. Cyril and Methodius University of Skopje. Vol. III. ISBN 978-608-4723-02-8. pp 48-54
- Г8.14.** Vukov, G., Gochev, Zh., Slavov, V., Vitchev, P., **Atanasov, V.** 2016. Mechanic-mathematical model for investigations of the natural frequencies and mode shapes of the free spatial vibrations of wood shaper and its spindle. Chip and Chipless Woodworking Processes 2016. Technical University in Zvolen. ISSN 13398350 (online). ISSN 2453-904X (print). 10(1): 203–209
- Г8.15.** Vukov, G., Gochev, Zh., Slavov, V., Vitchev, P., **Atanasov, V.** 2016. Numerical investigations of the natural frequencies and mode shapes of the free spatial vibrations of a wood shaper and its spindle. Chip and Chipless Woodworking Processes 2016. Technical University in Zvolen. ISSN 13398350 (online). ISSN 2453-904X (print). 10(1): 211–216
- Г8.16.** Gochev, Zh., **Atanasov, V.** 2016. Sawing of Douglas Fir Logs with Narrow Band Saw Blades in Winter Conditions. 7<sup>-ma</sup> Научно-техническа конференция „Иновации в горската промишленост и инженерния дизайн“. София. 1/2016 (9) ISSN1314-6149. pp 5 – 12 (НАЦИД)
- Г8.17.** Stefanov, S., **Atanasov, V.** 2015. Additions to the Solution of the Statically Indeterminate Problem of Tension in Bandsaw Blade. 7<sup>-ma</sup> Научно-техническа конференция „Иновации в горската промишленост и инженерния дизайн“. София. 1/2015. ISSN1314-6149. pp 81 – 88. (НАЦИД)

**Г8.18. Atanasov, V.** 2013. Research on the cutting power by processing logs with horizontal band saw. International Scientific and Technical Conference „Wood Technology & Product Design“. Ss. Cyril and Methodius University of Skopje. Vol. I. ISBN 978-608-4723-00-4. pp. 28 – 32.

***Забележки:***

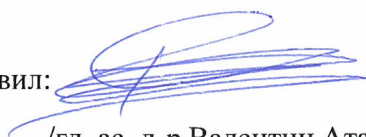
***Номерацията на разделите и статиите е в съответствие с Приложение 2 – Оценка на съответствието с МНИ***

***Всички публикации на кандидата са публикувани в Регистъра на научната дейност към НАЦИОНАЛЕН ЦЕНТЪР ЗА ИНФОРМАЦИЯ И ДОКУМЕНТАЦИЯ (НАЦИД): <https://ras.nacid.bg/dissertation-preview/42037>***

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София

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